



NORTHERN MORaine WASTEWATER RECLAMATION DISTRICT

113 Timber Trail, Island Lake, Illinois 60042

REGULAR MEETING MINUTES

July 14, 2020

Zoom Meeting w/ Video: <https://us02web.zoom.us/j/81461475052>

Zoom Meeting w/ Audio Only: +13126266799,,81461475052#

In-Person (Socially Distanced) Meeting at 113 Timber Trail, Island Lake, IL

Present: Trustees: Ken Michaels, John Ragland, Timothy Brunn, Lydia Ryberg, Dena Battaglia
District Manager: Mohammed Haque; District Clerk: Deborah Martin
Others: Superintendent Luke Markko

President Michaels called the meeting to order at 7:30 p.m.

1. CALL TO ORDER:

Roll Call: Timothy Brunn – Present
John Ragland - Present
Dena Battaglia - Present
Lydia Ryberg – Present
Ken Michaels – Present

2. PLEDGE OF ALLEGIANCE:

Those present pledged allegiance to the flag.

3. PRESENTATION & APPROVAL OF MINUTES:

a. Regular Meeting, June 9, 2020

Motion by Trustee Brunn to approve the Regular Meeting minutes of June 9, 2020 as presented.

2nd by Trustee Battaglia

5 ayes 0 nays 0 abstain

MOTION CARRIED

4. TREASURER'S REPORT:

a. Approval of the Monthly Treasurer's Report for month ending May 31, 2020

Trustee Ryberg presented the Monthly Treasurer's Report for month ending May 31, 2020 for Board approval. Also included was the Quarterly Investment Report.

Motion by Mrs. Battaglia to approve the Treasurer's Report for month ending May 31, 2020 as presented.

2nd by Mr. Brunn

5 ayes 0 nays 0 abstain

MOTION CARRIED

5. PUBLIC COMMENTS: none

6. MANAGER'S REPORT:

Manager Haque reported to the Board that the District is now ready to begin working on the televising and sewer cleaning schedule. Mr. Haque reminded the Board that the District will not bid out this work, but with the purchase of a used Ford Transit Van and the purchase of the needed equipment, he felt the operators would be able to utilize NASSCO training soon, and would be able to complete 20% of the project each year. Manager Haque informed the Board that the District has made application for the Darrell Road -Phase 1 DCEO Fast Track grant. Manager Haque also informed the Board that the State Revolving Loan Fund priority listing show the District having four future projects on the list for future priority selection. Manger Haque reported that the District is nearly back to our full work force physically at the plant and the office, with social distancing and



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protective barriers in place at the drive-up window, and that the lobby remains closed to the public. Mr. Haque stated that this plan will stay in effect until the state's Phase 5 is in place or when the District feels it is prudent to re-open the lobby. Manager Haque informed the Board that the North Clarifier repairs are going along well and on schedule. He stated that concrete will be poured for the floor very soon. He reminded the Board that bids had previously been received for painting the clarifier covers, but that bid was cancelled because the vendor's suggested product was not what the District requested. Now that the cover has been removed for the North Clarifier, Manager Haque stated that he is looking to have this north clarifier dome re-painted and anticipates there are further savings because it is more accessible.

On the subject of Woodman's, Manager Haque reported that he recently had a meeting with David Alarcon of the Village of Lakemoor to discuss wrapping up this project. Mr. Alarcon approached Manager Haque about assistance from the District in paying for the cost of the overrun they have accumulated on this project. Mr. Haque told Mr. Alarcon that he would approach the Board concerning any assistance the Board might grant. Mr. Haque did mention to Mr. Alarcon the unforeseen costs that the District may have with the Lily Lake Improvement Project, the Darrell Road project, and the repairs for our North Clarifier. After discussion, the Board wanted Manager Haque to convey to the Village of Lakemoor that the Board is open to further discussion with the Village about any possible assistance, but current situation makes it difficult to do so.

Manager Haque informed the Board that an operator in training will begin employment with the District within the next few weeks. Mr. Haque reminded the Board that in their packets were current expenses for the North Clarifier repairs, and he pointed out to the Board that the District is coming in much lower than the projected \$2 million for this work. Manager Haque pointed out to the Board that the Vactor had been delivered and was available for viewing if any Board members were interested. Mr. Haque also informed the Board that a by-pass pump for the Rawson Bridge Lift Station was purchased. Manager Haque told the Board that their packets also included a report on the number of permits that have been issued; pointing out that Savannah's of Lakemoor is picking up. Manager Haque informed the Board that these new connection fees include a portion to be set aside for the Darrell Road project. He also brought to the Board's attention that Septage receiving for the past month has also increased. He concluded by assuring the Board that Staff had been kept quite busy during the past month!

Trustee Battaglia asked the District Manager about the current status of the Compassionate Fund; Manager Haque reported that the District had contacted the Salvation Army concerning maintaining this fund for the District, and that communication just died, but that he hoped to begin to get this fund up and running at another time. Manager Haque pointed out that he felt the need for this fund and stated that he felt the next round of COVID-19 may be much worse. He stated that he believed it would mean more unemployment and financial hardships for our communities. Manager Haque informed the Board that the past month saw the District sending out a record of 85 water shut off notices with the Village of Island Lake reluctant to hang these red tags. Manager Haque also pointed out to the Board that the District also recorded a record number of liens for July, explaining that this was the best way to protect the District in cases when foreclosure processes would start on properties. District Clerk informed the Board that out of the 85 water shut off notices sent out, only 3 properties actually had water shut off.

Trustee Brunn inquired as to the process of having automated Septage receiving; Manager Haque replied that this project is still in the works, but that the televising and cleaning of our sewer system is taking precedence over the automated Septage receiving project.



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7. TRUSTEE REPORTS - none

8. LEGAL BUSINESS - none

9. OLD BUSINESS - none

10. NEW BUSINESS

a. Public Hearing for Ordinance #20-07, Appropriations Ordinance for Fiscal Year 2020-2021

No members of the public were in attendance.

b. Adoption of Ordinance #20-07, Appropriations Ordinance for Fiscal Year 2020-2021

Motion by Mrs. Ryberg to adopt Ordinance #20-07 for Fiscal Year 2020-2021 as presented.

2nd Mr. Brunn

Roll Call Vote: Dena Battaglia - Aye
Timothy Brunn - Aye
John Ragland - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

c. Lily Lake Road Project Update

Manager Haque updated the Board on the on-site meeting he had with members of the engineering firm, HR Green, for this project and members of Nunda Township and others. Manager Haque reminded the Board of the issue of our force main being in the way of the projected grading plans that HR Green had submitted; these plans failed to list our sanitary sewer force main. At this meeting, Nunda Township Highway Commissioner informed us that the District needs to move the force main at our expense. Manager Haque reported that at that point, he left the meeting. Mr. Haque reminded the Board that he is of the mind that HR Green is at fault in not doing proper locating all of the utilities in the area of Lily Lake Road. He stated that he felt HR Green should have had this information 2 years ago, not 2 months before the project is to have been completed. In the meantime, Manager Haque stated, our Operations staff has been doing a great amount of work to "pothole" this area – locating the elevation of our force main, in approximately 30 areas on Lily Lake Road. Mr. Haque reported that at this time, it is unclear the cost in relocating or realigning our sewer line. Manager Haque pointed out that there is the possibility of this issue going to the courts, or settled through negotiations, or the District having to bid this work out; all of these scenarios would be time consuming and costly.

d. Semi-Annual Strategic Plan Review

Manager Haque informed the Board that the report in the Trustee's packets show updated information for 2020, and that he felt the District's Strategic Plan was still viable, despite the COVID-19 pandemic. Mr. Haque stated that the District is making progress. The Board agreed that the District has been accomplishing a great deal. No Board action was required at this time.

e. Board of Trustees Appointment for Term Ending April 30, 2021

Board President Ken Michaels congratulated Trustee Battaglia on her new position that would require her family's relocation to Alabama. The Board thanked her for her years of service to the Board and Mrs. Battaglia expressed her gratitude for the Board's support and encouragement through the years. Mrs. Battaglia expressed her hope that a new member of the Board from Port Barrington would be a positive addition.

11. MISCELLANEOUS CORRESPONDENCE

a. MCCG Membership Meeting: cancelled due to the COVID-19 Pandemic



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12. APPROVAL OF BILLS

Motion by Mr. Brunn to approve payment of bills on the July 14, 2020 bill list as presented, in the amount of \$539,552.45.

2nd by Mrs. Ryberg

Roll Call Vote: Dena Battaglia - Aye
Timothy Brunn - Aye
John Ragland - Aye
Lydia Ryberg - Aye
Ken Michaels - Aye

5 ayes 0 nays 0 abstain

MOTION CARRIED

13. OTHER BUSINESS – none

ADJOURNMENT

Mr. Ragland stated that he wanted to again thank Trustee Dena Battaglia for her years as trustee with the District.

Motion by Mr. Brunn to adjourn at 8:23 p.m.

2nd Mr. Ragland

5 ayes 0 nays 0 abstain

MOTION CARRIED



July 14, 2020

To: NMWRD Board of Trustees

From: Mohammed Haque, District Manager

Subject: Manager's Report

All update items are in italics.

CMMS / Sewer Cleaning & Televising

The District's new(er) Vactor is now service ready and being delivered today to the District. It will be on display for the board meeting. The Vactor will be a critical part of our future sewer cleaning and televising work. In addition to a Vactor, the District currently has sewer televising equipment in a small enclosed trailer. The CMMS was submitted to IEPA as part of our NPDES permit requirements for the plant. The major part of the CMMS is the requirement that we clean and televise 20% of our system a year. That comes out to approximately 48,000 feet of sewer. At a typical rate of \$1.50 per linear foot to clean and televise, we anticipate a cost of \$72,000 per year if we want to have this contracted out, or roughly \$360,000 for the entire system.

Once we saw this price tag, we began investigating what it would take to get our system setup to do 1,000+ feet a day and get the work done in 2-3 months with 2 operators, a vactor truck and sewer televising equipment. We have determined that our televising equipment is inadequate for a large volume of work. It will need to be updated, primarily in the following ways (a) put equipment and monitoring station in a van that can be operated at all times of the year (b) upgrade televising camera equipment and (c) train operators on NASSCO standardized coding. Our upgraded vactor will be good for this type of work, so we should be set with that. For the televising equipment, we first had Jet Vac give us a quote for a brand new televising van. The price tag was \$276,000 for one of these sewer televising vans, including all customizations and sewer televising equipment.

In true NMWRD fashion, we are looking to get the same thing at 1/3 the cost. We would do this by purchasing a used Ford Transit Van and converting it to the same (or similar) televising van. Luke and I have been searching and have found a 2019 Ford Transit 250 Van for \$28,980 in Whitewater, Wisconsin (a check is on the bill list for tonight). The van will meet our needs and comes with less than 16,000 miles, is certified and under warranty. While buying a new one would be nice, it is likely to take 12-18 months to get from Ford. We intend to purchase this used van and put another \$20,000 - \$30,000 in customizations to make this a \$60,000 televising van (plus \$20,000 in sewer equipment we already own). The complete arrangement would be similar to a new one for about \$200,000. We would then use this to meet our 20% Sewer Cleaning and Televising requirements. Over the course of 5 years, I expect that this approach should save the District about \$150,000. We budgeted \$50,000 for sewer televising and cleaning this year and so this approach falls in line with our budget.

Our operators are starting to look into NASSCO training. This training would teach them in 2 days how to code defects in sewers so that it is standardized amongst all users and systems. We anticipate getting 1-2 operators trained in this.



2019 TRANSIT 250

\$28,980

Mileage: 15,920 Miles

VIN 1FTYR2CM9KKB65619
Grinwald Ford, Inc.
101 Hwy. 16 Frontage Road Watertown, WI 53094
(800) 467-6606
68.99 Miles Away

CERTIFIED PRE-OWNED

VIEW WINDOW STICKER

CHECK RECALL STATUS

CARFAX 1 OWNER

Contact Dealer

Vehicle Details

Mileage	15,920 Miles
Engine	3.7L TIVCT V6 ENGINE
Transmission	6-SPEED AUTOMATIC
Exterior Color	OXFORD WHITE

2020 Project Funding / Grants

The District has made application for Darrell Road – Phase 1 for a DCEO Fast Track grant application. The State Revolving Loan Fund priority listing has been released and the District has four future projects on it. The current SRF priority listing indicates that there will be principal forgiveness up to \$5 million per agency in future SRF loans. *We have submitted an entry for the \$200,000 grant that we hope to receive for the Electrical project at the Control Building. We have also worked with the Village of Lakemoor and made an application for the entire Darrell Road Sewer project for a DCEO Infrastructure Grant. It is expected that we will hear about the grants in the next month. We are also expecting to hear about the Unsewered Grant Fund in Illinois that may be applicable for the Holiday Hills Sewer Project.*

COVID-19 Adjustments

Staff have made numerous adjustments to accommodate the ongoing pandemic. *We have re-started the office with staff all working in the office. Joe and I have separated each other in different “wings” of the office and we wear masks when we go into common areas that Debi and Madalina occupy. The lobby remains closed, but we have installed a plexiglass barrier and have re-opened the drive-through. We will continue to keep the*



lobby closed until Phase 5 or sooner if we feel it is needed. So far, we have not had anyone request an in-person meeting.

Lily Lake Road Improvements – Nunda Township

An onsite meeting was held on June 15 where Mike Lesperance once again tried to tell the District that we need to move the sewers. I informed him that we are having our lawyers reviewing the easement and we do not feel that we need to move the sewer and that we feel their design is lacking and fails to maintain proper sewer cover. We also have had to engage TAI to review the sewer relative to the road changes to determine the real extent and estimate of the conflicts. To date, we have spent about \$15,000 in engineering to have TAI assist with the engineering review of the force main / road conflicts. Their recommendation, after the heated meeting on June 15 was that we need to pothole (dig a 8-10" hole down to the forcemain) the force mains in order to get the most accurate locations. The District has sent two operators and our vector for the last month to get the mains potholed and are waiting for TAI to come up with their recommendations.

Wegner Road Stormwater Improvements – Nunda Township

J Condon and Associates are designing a storm sewer for Nunda Township on Wegner Road, east of Lily Lake Road. This area also has both of our Lakemoor force mains as well as a gravity line. We have sent them plans for the sewers so that they can incorporate them in their designs. We have received the engineering plans from the Village of Lakemoor. It would appear that they have not included our sewers in their design. We are also potholing our sewers and using tracer wire to locate our sewers here and provide accurate data to J Condon / Village of Lakemoor / Nunda.

North Clarifier Repairs

The work is progressing nicely. Several payments this month are for costs related to this project. See Operations report for a thorough update.

Woodmans [Force Main + Gravity Sewer Extension + Lift Station]

District board has approved the project improvements, contingent on punchlist item completion. We have received final as-built drawings of the improvements and have accepted the improvements. I met with David Alarcon and Matt Dabrowski about this project a couple weeks back. The village is requesting assistance on the cost overruns for the underground portion of the project and has asked us to contribute (not sure if loan or grant) up to \$250,000 towards it. Initially I have told them that it was going to be impossible, given that we have a clarifier repair and other potential costs associated with Lily Lake Road and Wegner Road. However, in the event we get a Darrell Road Sewer grant that benefits both the village and us, we may want to consider in some form.

Sludge Bed Cover and Conveyor

Greenfield Contractors was awarded the bid for the Sludge bed covers. We are currently in the process of submittal review and finalization. Once submittal is approved, we expect that it will be installed in 60-90 days. We have moved the sludge conveyor to directly discharge to the sludge bed to the east of the



Dewatering building and are currently setting up the conveyor to dump into the bed. Once the system works and the covers are installed, we expect to order a full stainless conveyor with cleated belts that should function well long-term. *Caldwell Engineering and Greenfield Contractors have submitted latest plans for review by McHenry County.*

User Rate Study

Eric Rothstein has provided his final report.

Personnel

We are holding off on PT Office Clerk (over 200 applied) because the office is closed. *We have hired an Operator in Training. Calvin Van Ryzin was previously working as a Wastewater Operator Intern in Clintonville, WI and will be starting with the District in the next month. This will bring our Operator count to 4 and will allow us the manpower to do the sewer televising and cleaning work this fall/winter.*

Floodproofing of Control Building and Generator Modifications

Floodproofing angles and supports have been delivered. Coping and other architectural metals have been received and are currently being installed by District staff. *Door deliveries are pending. Final as-builts will be completed by TAI.*

Headworks / Screening Issues

Change order approved to convert to MS2 bar screen and waiting final engineering drawings by TAI.

Non-Potable Water Improvements

Self-cleaning filter/strainer has been started up and is working quite well. In the process we have discovered that of the three existing NPW pumps, one does not work properly and another is showing extreme age and corrosion. Due to a failure of a second pump, an emergency repair was completed. *All components have been received and work is pending.*

Maintenance Garage

I am working with ADG Design on the architectural drawings and will submit to the board in the future. Permits from McHenry County Stormwater have been received for the paving work related to the maintenance garage and plant. *Revisions to the architectural drawings were sent back to the ADG Design and we are waiting for the next iteration of drawings.*

Ordinance Review

Currently the District has Sewer rates, usage, construction details and specifications in seven (7) different documents. There is some duplication (and related confusion) as a result. I am currently working with our attorney Vic Filippini to streamline this into 2-3 ordinances, which is the standard for agencies such as ours. This will make things easier for staff and for the public. *Since Vic Filippini is not providing the revisions, I will start to do this work.*



Circle K

Waiting on retained personnel fee. No contact has been made with the District for several months. We have reached out to inspector at Island Lake. *No update.*

Skipper Bud's

Skipper Bud's request to connect to NMWRD did not garner the full support of all five parties. LRSD has requested that the matter be delayed until their dissolution/transfer to Lake County. *No update.*

Lift Station Controls

The Hale control panel has been delivered and because of the 50th Anniversary, we have decided to use it at the Treatment Plant Lift Station. A new one will be ordered for Hale, as well as panels at additional locations in the next few months utilizing contributions from state legislature capital bill funding. *Plans are nearly complete and ready to bid once the funding source is confirmed.*

520 Wegner Road

We are working with Lakemoor and the new owner of this property for a new auto-mechanic shop at this location.



Northern Moraine WRD

52-6030

North Clarifier Repairs

Expense Summary

July 14, 2020

EOPC	\$ 2,094,250
Budget	\$ -
Anticipated	\$ 1,030,218
Savings	\$ 1,064,032
Extras	\$ -

HARD COSTS

#	Name	Description	EOPC *	Estimated	Pd to Date	Amt Due	Balance
1	SRN Testing	Monitoring Wells	\$0.00	\$11,097.50	\$11,097.50	\$0.00	\$0.00
2	SRN Testing	Soil Boring & Analysis/Geotechnical Report	\$20,000.00	\$6,640.00	\$6,640.00	\$0.00	\$0.00
3	Bartnick, Inc.	Excavation	\$26,100.00	\$9,951.50	\$9,951.50	\$0.00	\$0.00
4		Compacted Fill or Flowable Base	\$130,500.00	inc. in Manusos	0	\$0.00	\$0.00
5	Don's Welding & Fabrication, INC.	Mechanical	\$0.00	\$865.00	\$865.00	\$0.00	\$0.00
6	Various	Equipment	\$200,000.00	\$1,872.86	\$940.56	\$0.00	\$932.30
7		Demolition - Labor	\$60,000.00	inc. in Manusos	\$0.00	\$0.00	\$0.00
8		Demolition - Material Hauling and Disposal	\$69,000.00	\$0.00	\$0.00	\$0.00	\$0.00
9		Remove & Store Clarifier Cover	\$12,000.00	inc. in DPS	\$0.00	\$0.00	\$0.00
10	Various	Dewatering	\$100,000.00	\$50,000.00	\$3,807.30	\$0.00	\$46,192.70
11		Concrete	\$690,000.00	inc. in Manusos	\$0.00	\$0.00	\$0.00
12		Piping	\$50,550.00	inc. in Manusos	\$0.00	\$0.00	\$0.00
13		Installation Covers/Reinstall Cover	\$112,000.00	inc. in DPS	\$0.00	\$0.00	\$0.00
14		Electrical	\$35,000.00	\$5,000.00	\$0.00	\$0.00	\$5,000.00
15	Walker Process	Equipment - Clarifier Mechanism		\$189,500.00	\$18,950.00	\$0.00	\$170,550.00
16	LAI, Ltd.	Equipment - Pressure Relief Valves		\$11,710.00	\$0.00	\$11,710.00	\$0.00
17	Berg - Johnson	Equipment - Magnetic Meters		\$10,046.52	\$0.00	\$10,046.52	\$0.00
18	DPS Equipment	Dome R&R; Mechanism R&R		\$100,000.00	\$50,000.00	\$0.00	\$50,000.00
19	Manusos	Concrete Demo, Mechanical, Concrete Install		\$487,950.00	\$2,064.00	\$184,945.00	\$300,941.00
20	Dahm Enterprises	Aggregate - Road		\$5,000.00	\$1,472.96	\$0.00	\$3,527.04
21	Visu-Sewer	Televising		\$3,880.00	\$3,880.00	\$0.00	\$0.00
22	Various	Miscellaneous		\$5,000.00	\$1,173.10	\$330.28	\$3,496.62
23							\$0.00
24							\$0.00
			\$1,505,150	\$898,513	\$110,842	\$207,032	\$580,640

SOFT COSTS

#	Name	Description	EOPC *	Estimated	Pd to Date	Amt Due	Balance Due
1		Dumpsters	\$1,000.00	\$0.00	\$0.00	\$0.00	\$0.00
2		Mobilization/Demobilization	\$10,000.00	\$0.00	\$0.00	\$0.00	\$0.00
3		Supervision & Surveying	\$52,000.00	\$0.00	\$0.00	\$0.00	\$0.00
4		Record Drawing	\$10,000.00	\$5,000.00	\$0.00	\$0.00	\$5,000.00
5		Bonds & Insurance	\$16,000.00	\$5,000.00	\$0.00	\$0.00	\$5,000.00
6		Overhead & Profit	\$151,000.00	\$0.00	\$0.00	\$0.00	\$0.00
7		Contingency @ 20%	\$349,100.00	\$0.00	\$0.00	\$0.00	\$0.00
8	Filippini Law Firm	Legal		\$18,510.00	\$18,510.00	\$0.00	\$0.00
9	Vanderstoppen	Survey - Road		\$1,200.00	\$1,200.00	\$0.00	\$0.00
10	TSC Corporation	Testing		\$5,900.00	\$0.00	\$1,440.00	\$4,460.00
11	Various	Permits & Misc.		\$2,000.00	\$1,285.02	\$0.00	\$714.98
12	Trotter and Associates	Engineering Services - Civil		\$80,000.00	\$65,776.67	\$0.00	\$14,223.33
13	Automation Service & Design	Engineering Services - Electrical / Controls		\$4,000.00	\$0.00	\$850.00	\$3,150.00
14	Weston Solutions, Inc	Engineering Services - Hydrogeological		\$10,094.49	\$10,094.49	\$0.00	\$0.00
TOTAL SOFT COSTS			\$589,100	\$131,704	\$96,866	\$2,290	\$32,548
GRAND TOTAL			\$2,094,250	\$1,030,218	\$207,708	\$209,322	\$613,188

* EOPC (Engineers Opinion of Probable Cost)

FY 2020-21



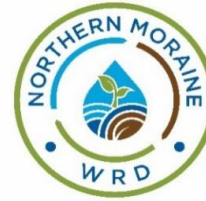
Month	Loads	Gallons	Revenue FY20-21	Revenue FY19-20	YTD FY20-21
May-20	19	53200	\$3,396.60	\$1,260.00	\$3,396.60
Jun-20	20	63400	\$3,763.80	\$1,320.00	\$7,160.40
Jul-20				\$711.00	
Aug-20				\$1,335.00	
Sep-20				\$777.00	
Oct-20				\$2,304.00	
Nov-20				\$2,550.00	
Dec-20				\$1,968.60	
Jan-21				\$1,642.20	
Feb-21				\$1,632.00	
Mar-21				\$2,682.60	
Apr-21				\$2,488.80	

	Date	Company Name	Gallons	Cost/Gal	Revenue	Time	Type
May	5/1/2020	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	10:35AM	Septic
	5/4/2020	Weidners	3100	Flat Rate	\$183.60	10:30AM	Septic
	5/5/2020	Comm. Sewer & Septic	2750	Flat Rate	\$173.40	1:45PM	Septic
	5/6/2020	Comm. Sewer & Septic	1500	Flat Rate	\$173.40	10:05AM	Septic
	5/6/2020	Weidners	3000	Flat Rate	\$183.60	2:45PM	Septic
	5/7/2020	Weidners	3100	Flat Rate	\$183.60	11:45AM	Septic
	5/7/2020	Weidners	3500	Flat Rate	\$183.60	2:50PM	Septic
	5/12/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	10:10AM	Septic
	5/12/2020	Weidners	3400	Flat Rate	\$183.60	3:25PM	Septic
	5/14/2020	Comm. Sewer & Septic	3200	Flat Rate	\$173.40	10:30AM	Septic
	5/14/2020	Weidners	3200	Flat Rate	\$183.60	3:00PM	Septic
	5/15/2020	Weidners	3000	Flat Rate	\$183.60	10:00AM	Septic
	5/19/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	3:40PM	Septic
	5/20/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	10:30AM	Septic
	5/20/2020	Weidners	3500	Flat Rate	\$183.60	11:45AM	Septic
	5/20/2020	Weidners	3600	Flat Rate	\$183.60	3:00PM	Septic
	5/21/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	11:10AM	Septic
June	5/21/2020	Weidners	3100	Flat Rate	\$183.60	2:55PM	Septic
	5/28/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	11:30AM	Septic
	6/1/2020	Weidners	3250	Flat Rate	\$183.60	8:30AM	Septic
	6/2/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	3:20PM	Septic
	6/3/2020	Comm. Sewer & Septic	2250	Flat Rate	\$173.40	12:30PM	Septic
	6/5/2020	Weidners	3500	Flat Rate	\$183.60	9:00AM	Septic
	6/5/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	10:00AM	Septic
	6/9/2020	Comm. Sewer & Septic	2500	Flat Rate	\$173.40	11:22AM	Septic
	6/10/2020	Weidners	3750	Flat Rate	\$183.60	9:05AM	Septic
	6/10/2020	Weidners	3800	Flat Rate	\$183.60	12:00PM	Septic
	6/10/2020	Comm. Sewer & Septic	1000	Flat Rate	\$173.40	12:50PM	Septic
	6/10/2020	Weidners	3800	Flat Rate	\$183.60	NA	Septic
	6/11/2020	Weidners	3800	Flat Rate	\$183.60	9:55AM	Septic
	6/11/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	2:50PM	Septic
	6/12/2020	Comm. Sewer & Septic	2000	Flat Rate	\$173.40	12:00PM	Septic
	6/17/2020	Weidners	3800	Flat Rate	\$183.60	2:55PM	Septic
	6/19/2020	Weidners	3800	Flat Rate	\$183.60	8:45AM	Septic
	6/19/2020	Weidners	3750	Flat Rate	\$183.60	3:10PM	Septic
	6/24/2020	Comm. Sewer & Septic	3000	Flat Rate	\$173.40	10:45AM	Septic
	6/24/2020	Weidners	3800	Flat Rate	\$183.60	12:15PM	Septic
	6/25/2020	Comm. Sewer & Septic	1000	Flat Rate	\$173.40	10:30AM	Septic
	6/25/2020	Weidners	3600	Flat Rate	\$183.60	3:30PM	Septic
	6/26/2020	Weidners	4000	Flat Rate	\$183.60	9:00AM	Septic
	6/29/2020	Weidners	3900	Flat Rate	\$183.60	12:15PM	Septic

Darrell Road Special Connection Fee Collections

The logo for Northern Moraine Water Reclamation District (WRD) is a circular emblem. It features a stylized blue water drop in the center, from which a green plant sprout grows. Below the drop are wavy lines representing water. The words "NORTHERN MORAIN" are written in a semi-circle at the top, and "WRD" is at the bottom, all within a green circular border.[illegible]

NMWRD Sewer Connection Permit Tracking
FY 2020-21



Permit Date	Address	City	Subdivision/ Business	Re-Connect, Repair, Demo or New Connection	Permit Owner	Permit No.	Connection/ Inspection Fee	Darrell Road Special Connection Fee
6/19/2020	204 Eastwood Avenue	PB	Eastwoods	Repair	Wielogorski	5299-B	\$ 100.00	\$ -
6/29/2020	32044 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5647	\$ 7,674.00	\$ 3,248.00
6/29/2020	32054 Savannah Drive	LM	Savannahs	New Connection	William Ryan Homes	5648	\$ 7,674.00	\$ 3,248.00
							Standard Connections	Darrell Road Connections
FY 2020 - 2021 Total:							\$ 15,448.00	\$ 6,496.00
Approved Budget FY 2020 - 2021							\$ 108,536.00	\$ 25,984.00
Approved +/- vs. Current YTD							\$ (93,088.00)	\$ (19,488.00)



NMWRD June 2020 Operations Report

As of July 10th, 2020

Prepared by: Luke Markko, Superintendent

COVID-19 Response

There has been additional scaling back of several of the precautionary measures District staff have been taking in response to the phased approach the state of Illinois is using to reopen.

- **Work Shifts** – Operations staff work shifts have been adjusted to allow for some more overlap. Currently there are two staff on a shift from 6:00am – 2:30pm, and two staff on a shift from 10:30am – 7:00pm. The additional overlap has been helpful with completing some tasks, while still having a later shift has proven advantageous in that it has allowed for some work by operations staff to be completed in the District Office after administrative staff have left for the day, providing a level of separation between people. This allowed for a plexiglass barrier to be installed at the drive-up window and will be helpful in the installation of a plexiglass barrier at the interior customer service counter.
- **PPE** – We have applied for additional facemasks through the American Water Works Association who has been working with local Emergency Management Agencies to distribute FEMA supplied PPE.

North Secondary Clarifier – We have reached a turning point in this project. We have completed the demo and removal phase and are moving into the constructive rebuilding of the clarifier floor and mechanism.

- **Concrete Rehab** – All of the concrete floor and center pier have been removed except for a 5 ft. ring of floor on the outer perimeter for the new floor to be integrated with. A new base course of 3 in. stone has been laid in the very center of the tank and a thin layer of concrete known as a “mud slab” has been poured. This has been put in place to provide a point to begin construction of the new center pier. The center pier will support the center column and in turn the entire clarifier mechanism.



- **New Mechanism** – A new clarifier mechanism has been ordered from Walker Process Systems. The new mechanism will have stainless steel components for items that will be below the water level in the tanks. This will significantly reduce rehab costs in the future.



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North Clarifier Cont...

- **New Return Activated Sludge (RAS) Flow Meters** – New magnetic flow meters have been purchased to replace the ultrasonic flow meters that measure the RAS flow from each clarifier. This will provide for a more accurate measurement of sludge flowing from the clarifiers. The existing ultrasonic meters are located close to the discharge point of the sludge which can be problematic when it comes to accuracy. In metering installation positioning the meter away from bends and discharge points ensures even flow through the meter and provides accurate readings. It was decided that it would be an opportune time to have installation coincide with the clarifier rehab.
- **Dome Rehab** – With the fiberglass dome off and, on the ground, it is more accessible for cleaning and painting. District staff have power washed the dome sections and we have selected a contractor to repaint them. The existing paint is starting to peel especially along the bottoms where the cover sections rest on the concrete walls. A more robust coating will be applied in these locations to prevent future peeling. Additionally new weather stripping has been purchased to replace existing strips that go between sections and where the dome rests on top of the concrete walls.
- **Pressure Relief Valves (PRVs)** – New stainless steel PRVs have arrived. There are 8 that will replace the existing wall-mounted PRVs, and 26 PRVs that will be installed in the floor of the clarifier. The original design only had the 8 wall-mounted PRVs. The addition of the floor PRVs will provide more points of pressure relief for groundwater below and around the clarifier.



Wall PRV (left) & Floor PRV (right)





Skid Steer – Covered in Engineering Report.

Lakemoor Lift Station Capital Bill Improvements – An initial plan set was provided by Trotter and Associates Inc. (TAI) for the planned improvements to the Lakemoor lift stations that will be funded by the Capital Bill. District staff have been in touch with TAI and revisions are being made to the initial plan-set at the District's direction. District staff are working with both TAI and Automation Systems and Design (ASD) to develop a radio/cellular network to transmit data from the lift stations to the treatment plant. A radio study is being completed to determine how the data from the lift stations will be transmitted back to the wastewater treatment facility. Radio requires a line-of-sight to be available from the transmission point to the receiver. The end result will likely require some "daisy-chaining" of transmissions from lift station to lift station and use of a high point receiver positioned on water towers in Island Lake and Lakemoor. In the event a line-of-sight transmission cannot be established, then cellular transmission would be a secondary option.

Supervisory Control And Data Acquisition (SCADA) – All of the fiber optic cable and ethernet cable has been installed throughout the wastewater treatment facility. All that remains is to have the fiber optic cable connectors installed, and then we can begin testing our communication network.

Rawson Bridge Rd. Lift Station – Plans are underway to replace aging and failing valves at the Rawson Bridge Rd. Lift Station. The isolation valves and check valves are original equipment dated back to the late 90's. The check valves have begun to leak flow back from the force main into the wet well. This reduces the station's efficiencies resulting in reduced hydraulic capacity and increased energy consumption. New valves have been ordered, and a PO has been issued to Dahme Mechanical to perform the replacement of the valves with District staff supporting the project with use of the Vactor. Additionally, new base elbows have been purchased to replace the existing elbows. This is the point where the pump connects to the force main.

Vactor Replacement – We have received word that the used Vactor that is being purchased from Sewer Equipment and Supply is ready for us to be picked up and put to use. Sewer Equipment and Supply went over the machine to get it service-ready for us. Operations staff will receive training on the new machine as well.

Mutual Aid

- On 6/6 Operations staff attempted to televise a storm sewer for Lakemoor Public Works at the intersection of Willow and Sunnyside in Lakemoor. Our staff experienced malfunctions with the televising camera system. Repairs have been made to the camera, and the televising is scheduled to occur the week of 7/13.
- On 6/11 Operations staff assisted Lakemoor Public works by using the Vactor to hydro-excavate a water valve.





Bypass Pump – A portable, trailer-mounted, 6" bypass pump has been purchased. The pump is powered by a diesel engine and can pump up to 2,290 gpm or approx. 3.3 MGD. This pump allows a lift station to be bypassed in the event of a failure that renders the pumps inoperable or for a planned repair. The pump comes equipped with a controller that provides automated starting and stopping of the engine by utilizing either a level sensor or floats suspended in the water. It can be remotely monitored and controlled via web interface. Surprisingly, the only options prior to the purchase of this pump were to either call in a rental or to use a small trash pump. The small trash pump would not be able to keep up with the flows at some of the larger stations. With this resource, the District now has a better ability to respond to emergency situations as well as reduce project costs that would require the rental of such a pump as is the case with the afore mentioned work at Rawson Bridge Lift Station.



An invaluable piece of equipment.

Lily Lake Rd. Improvements – Covered in Engineering Report.

Wegner Stormwater Improvements – Covered in Engineering Report.

Lift Station 7 Automatic Transfer Switch (ATS) – The ATS at Lift Station 7 has been replaced. This is the switch that will automatically deliver power to the station from the generator in the event of a power outage. Unfortunately as the work was being completed, significant damage to the generator wiring was discovered. The wiring appeared to have been chewed through by rodents. This generator is slated for replacement as part of the Capital Bill Improvements and is the oldest lift station generator in our inventory. Replacement of the generator will be happening sooner than initially planned once selection and pricing have been finalized.





Bulk Storage of Hyper Ion – The new chemical storage tanks and filling system have been put into use. We are now capable of receiving bulk deliveries of, Hyper Ion, the alum solution that is utilized to remove Phosphorous from the wastewater. A tanker truck can pull up to the building and connect to an exterior fill port and pump the chemical into the tanks that have been placed where the old Belt Filter Press used to be housed. The bulk storage takes us away from receiving the chemical in 275-gallon totes. This is a welcome change because the totes are heavy and can only be moved using the front end loader and require regular swapping when a tote is exhausted.



Tanker connected to fill port.



Bulk tanks with supply and feed lines.

Locating Device – A new locating device was recently purchased and Operations staff were trained on its use. The old device was out-dated, and beginning to become inaccurate. The device allows users to detect underground utilities when somebody calls in a JULIE Locate for work that involves digging. In most cases for our staff it is used to locate a force main. Force mains typically do not have closely spaced manholes to allow for easy determination of an underground pipe location. In most cases, but not all, a tracer wire is installed and buried with the force main. This allows a locating device to be connected to the wire. The device sends a radio signal through the wire that allows staff to pinpoint where in the ground the pipe lies. The device also proves useful in locating buried structures at the treatment plant site when digging occurs.





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Locator consists of a sending unit and detection wand.



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NMWRD Engineering Report

Date: July 10th, 2020

Prepared by: Joe Lapastora, E.I.T. – Staff Engineer

Woodman's Lift Station and Sanitary Sewer Additions:

[Project Update] – The District issued a 'Sanitary Sewer Improvement Requirements' letter to the Village of Lakemoor on June 16th. The letter states that the District approved and accepted the sanitary sewer improvements for the Woodman's project on February 11th, 2020. Note that the project entered the maintenance period on the aforementioned date, which shall last for three (3) years or until February 11, 2023. The letter references additional requirements outlined in the Intergovernmental Agreement between the Village of Lakemoor and the Northern Moraine Wastewater Reclamation District that must be addressed.

Lily Lake Road Safety Improvements:

[Project Update] – District operators spent the month of June locating the 12" forcemain that runs along the West side of Lily Lake Road through means of potholing (excavation for the purpose of obtaining visual confirmation of sanitary sewer mains). Potholing locations and boundaries were provided by Trotter and Associates to strategically provide a better understanding of the true location and depth of the 12" line. Once all locations along the 12" forcemain were hydro excavated via the District VAC, Trotter sent out a surveying crew to shoot the forcemain at the recently excavated locations. Finally, District operators shifted their focus to the 8" forcemain that runs along the East side of Lily Lake Road at the end of June. Far less potholing locations are specified for the 8" forcemain since the District is in possession of construction record drawings, however, these in-field checks will provide assurance on the accuracy of the record drawings.



Picture of hydro excavating for 12" forcemain at Lily Lake Road.



Picture of potholing location along Lily Lake Road



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NMWRD Plant Projects:

[Project Update] – Plant project updates for the month of June are outlined in the following section. See Sludge Drying Bed Cover section for all updates relating to the Greenfield cover of the two Southwestern most drying beds. Control Building door hardware was finalized in early-June and the District has coordinated the delivery of hardware directly to Cross Aluminium for production. The District should see the fully assembled doors and hardware delivered to the plant sometime during August. Allan-ICS delivered the lowest reasonable quote to construct the new RAS/WAS control panel and the District should see the delivery by July 24th. The administrative staff worked together to produce a one-sheet that accurately outlines the schedule of the District's late fees. Similarly, a comprehensive review of the budget was performed to produce a two-page document with a summary of funds/accounts/balances to ensure all P.O.s are created with the correct references. For a detailed update on work relating to the North Secondary Clarifier, see the Operations Report.

Sludge Drying Bed Cover:

The District asked Caldwell Engineering to work on the site plan for the sludge drying bed cover during late May. The District received sealed Engineering plans on June 26th and sealed foundation plans on July 6th. First quality concrete foundation blocks are now available for purchase from Fischer Bros, but we were informed during mid-June that they no longer offer delivery services. The District is currently in the process of obtaining freight quotes to deliver the block foundation to NMWRD and a final decision is expected in the coming week. Once block foundation is purchased/delivered/placed, the District will proceed with scheduling to begin constructing the structure.

Asset Management Software Considerations:

The District issued a P.O. for a new Asset Management Software / CMMS in early-June. The new Operational Management System chosen was Cartegraph and will replace two paid softwares, ICOM and Upkeep. The District informed our previous televising software provider, Redzone, that we would not be renewing a contract for ICOM and we requested that they export all ICOM data so Cartegraph can begin populating our new software. A kick-off meeting is scheduled for July 14th where we will meet our Project Manager and start to plan sequencing to ensure that we coordinate the new software start-up with both our SCADA upgrades (VT SCADA) at the plant and the implementation and integration in the collection system.





Sewer Televising & Cleaning Plan:

NMWRD unveiled its newly developed CMOM plan in March that included a sanitary sewer cleaning and televising schedule, which repeats every five (5) years. A detailed Sewer Televising & Cleaning Plan is currently being developed which will dictate the specifics of which gravity mains are to be televised and cleaned in any given year. With the purchase of the new VAC and recent upgrades to the televising equipment, the District intends to perform cleaning and televising for most of the collection system but may need to contract out the work for larger diameter mains. As of July 6th, the District began shopping utility vans to construct a televising vehicle in-house.

Phosphorous Discharge Optimization Plan:

The District entered into an agreement with Fehr-Graham in early April to produce a quality Phosphorous Discharge Optimization Plan (PDOP) which is required per NMWRD's NPDES permit, Special Condition 20. An introductory call was held with District Management and a shared Dropbox was created to share all applicable data with the engineering consultant. The District received a draft version of the report on June 4th noting that some sections required more information to be submitted to Fehr-Graham in order to complete. The District will continue to aid Fehr-Graham in all their requests to produce a meaningful PDOP. Note that the District requested a one (1) year extension on the PDOP report on March 26th. A draft Permit with proposed changes was received by the District in late June stating that the IEPA has initiated the 'Public Notice' phase to amend the District's existing NPDES Permit after an extension was requested.

Engineering Adjustments in light of COVID19:

In response to the State of Illinois entering Phase 4 of the Restore Illinois plan, administrative staff members have fully transitioned back to a routine office schedule. Operators and lab staff have continued to maintain staggered in-office shifts, with slight adjustments to shift times. All engineering related work continues to progress with no setbacks.



In addition to the work relating to these projects, the following engineering related work is also being performed;

- The recently purchased John Deere 326D Skid Steer was delivered to the plant in early-June. Upon delivery of the skid, it was evident that new tires would be beneficial for planned work to be performed with the skid. The District shopped quotes for new tires and yard service and chose Cassidy Tire to perform the swap.



Picture of "yard service" to swap tires at plant.

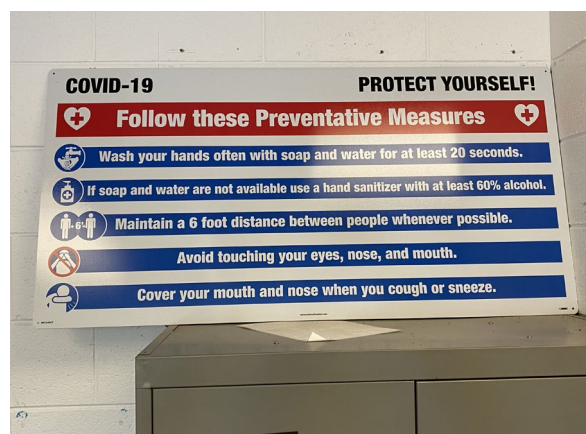


Picture of new tires installed.

- With the District re-opening the drive-thru lobby and the continued contractor presence at the treatment plant due to the North Clarifier rehab, some COVID19 safe practice signage was ordered and installed.



Contractor signage for COVID safe practices



Employee signage for COVID safe practices.

- The District recently updated all contact/call information for Alarm Detection System so that the appropriate employees are notified of any triggered alarms.





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- The District is set to receive new gate operators for both the administrative building and treatment plant. Metro Door and Lock will install the new slide gate operator sometime in the coming week. The District will then install the swing gate operator at the administrative office (in-house install) for the West exit gate only. Once operators are comfortable with the install on the West exit gate, the District then intends to order the same swing gate operator to install at the East entrance gate. During the in-house install for the admin gates, provisions are being made so that all electrical is ran through conduits to ensure no damage to the cables.
- The District placed orders on new logo decals and stickers, of various sizes, to be placed on District property such as vehicles and equipment. The District is finalizing a quote comparison for vinyl decals for vehicles and a P.O. will likely be issued in the coming week. Professional decal installation will be provided for the new VAC truck and the new John Deere gators.
- The District cancelled a P.O. for the new administrative F-250 back in March when COVID hit, as we were informed that the Ford plants halted the assembly lines. The thought behind this decision was that we assumed we could look elsewhere for a quick purchase option of a new vehicle, rather than. Upon performing a thorough review to find vehicle alternatives, the District concluded that the most financially responsible way to purchase an admin vehicle would be to continue through the Suburban Purchasing Cooperative for municipality purchasing. The P.O. has been re-issued and we will receive notification when the truck hits the assembly line.
- The District had a successful auction, hosted via Obenauf Auction Services, and pulled in some additional income last month as our auction closed. The District will continue to identify unused electronics and other unused items as we prepare for another auction cycle. A new auction list will be provided at the next Board meeting to present to the Trustees for approval.
- The District was pleased with digitizing of plan sets that Hainseville P&C scanned during the month of June. The quality of the first batch of digitized plans were very good and the District has proceeded with sending another batch of plans for digitizing. The District will continue to digitize all plan sets as we hope to make digital plan sets readily available upon request, without having to pull out old, fragile, physical prints.
- Coinciding with the partial demolition phase of the North Secondary Clarifier, the District entered into an agreement with TSC, a material testing company that will perform all concrete and earthwork testing. All testing details, along with general day-to-day updates relating to the North Clarifier repair, are being maintained in a District Observation Report.





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Drone Photos of North Clarifier Progress for June



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Drone Photos of North Clarifier Progress for June



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DELINQUENT ACCOUNTS RECAP FOR June 2020

Revised: 7/09/20 by Debi Martin, District Clerk

\$200-\$300

68 Active Accounts

Island Lake – 34 customers
34 Notices of Delinquency
Lakemoor – 21 customers
21 Notices of Delinquency,
Port Barrington – 13 customers
1 Lien – 1 making payments, 12 Notices of Delinquency

\$301-500

67 Active Accounts

Island Lake – 33 customers
33 Liens - 1 Final Water Shut off Notice, 29 Water Shut Off Notices, 3 Final Notices of Delinquency
Lakemoor – 25 customers
25 Liens - 12 Final Notices of Delinquency, 4 Sewer Disconnection Notices, 9 Water Shut Off Notices
Port Barrington – 9 customers
9 Liens - 7 Final Notices of Delinquency, 2 Sewer Disconnection Notices

\$501-\$1000

19 Active Accounts

Island Lake – 6 customers
6 liens – 1 Final Water Shut Off Notice, 4 water off, 1 to be disconnected from sewer
Lakemoor – 8 customers
8 liens – 1 with water off, 2 Sewer Disconnection Notices, 5 to be disconnected
Port Barrington – 5 customers
5 liens – 2 Sewer Disconnection Notices, 2 to be disconnected, 1 in foreclosure

\$1001 and up

9 Active Accounts

Island Lake – 4 customers
4 liens – 3 with water off, 1 to be disconnected from sewer
Lakemoor – 5 customers
5 liens – 2 sold for delinquent taxes; with 1 to be demolished, 3 to be disconnected

Delinquent Accounts total (active and inactive customers): **\$54,307.58** (\$9,701.89 inactive accts)

June 2019's report: **\$56,111.64**

June 2018's report: **\$46,814.87**

MONTHLY ACTIVITY:

4768 Monthly Bills mailed 7/01/20 (for June service)
425 Bills not mailed – customers prepaid on their accounts
38 Water Shut Off Notices mailed on 7/06/20
22 Final Notices of Delinquency mailed on 7/06/20
10 Sewer Disconnection Notices mailed on 7/06/20

67 Notices of Delinquency mailed 7/06/20
19 Real Estate closings for June 2020
2 Final Water Shut off Notices mailed 7/06/20
89 Liens filed in June



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NORTHERN MORaine **W R D**

AGENDA **REGULAR MEETING** **7:30 P.M. – July 14, 2020**

Zoom Meeting w/ Video: <https://us02web.zoom.us/j/81461475052>
Zoom Meeting w/ Audio Only: +13126266799,,81461475052#
In-Person (Socially Distanced) Meeting at 113 Timber Trail, Island Lake, IL

- 1. CALL TO ORDER & ROLL CALL**
- 2. PLEDGE OF ALLEGIANCE**
- 3. PRESENTATION & APPROVAL OF MINUTES**
 - a. Regular Meeting Minutes – June 9, 2020
- 4. TREASURER'S REPORT**
 - a. Quarterly Investment Report
- 5. PUBLIC COMMENTS**
- 6. MANAGER'S REPORT**
 - a. Operations Report
 - b. Engineering Report
 - c. Delinquent Accounts Report
- 7. TRUSTEE REPORTS**
- 8. LEGAL BUSINESS**
- 9. OLD BUSINESS**
- 10. NEW BUSINESS**
 - a. Public Hearing on the FY 2020-21 Appropriations Ordinance
 - b. Adoption of Ordinance # 20-07, FY 2020-21 Appropriations Ordinance
 - c. Lily Lake Road Project Update
 - d. Semi-Annual Strategic Plan Review
- 11. MISCELLANEOUS CORRESPONDENCE**
 - a. MCCG Membership Meeting
- 12. APPROVAL OF BILLS**
- 13. OTHER BUSINESS**
 - a. Executive Session – Litigation, if needed

Posted to www.nmwrld.org - July 10, 2020



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